

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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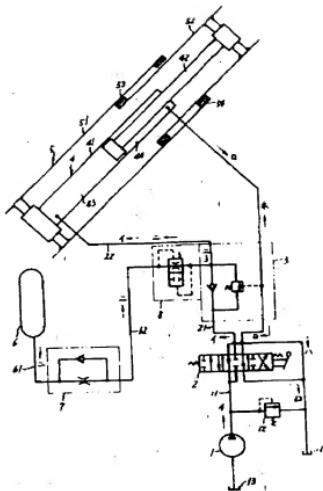
APPLICATION DATE : 11-01-82  
APPLICATION NUMBER : 57002935

APPLICANT : KOBE STEEL LTD;

INVENTOR : YOSHIKAWA KOZO;

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TITLE : HYDRAULIC CIRCUIT FOR  
MAINTAINING EXPANSION AND  
CONTRACTION OF HYDRAULIC  
CYLINDER



ABSTRACT : PURPOSE: To maintain the state of stoppage of the hydraulic cylinder even when pressure in an oil chamber drops by connecting an accumulator to the circuit at the maintenance side at the downstream of a counterbalance valve through an emergency valve and a slow return check valve.

CONSTITUTION: When the operation of an expansion cylinder 4 is stopped and pressure in an oil chamber 43 at the push side is made lower than initial pressure  $P_1$  just after the cylinder is stopped by the shrinkage of pressure oil due to the drop of oil temperature and inevitable oil leakage and the like, the emergency interrupting valve 8 is changed over. instantaneously, pressure oil accumulated into the accumulator 6 is introduced in the direction of the arrow (d), and pressure in the oil chamber 43 at the push side is corrected to pressure corresponding to pressure  $P_H$  accumulated into the accumulator 6.

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